CHAPTER ONE - ISSUES AND EXISTING CONDITIONS

The following information is added to Chapter One of the original Master Plan.

Historical Background

In December of 1992, the Town of Kearny completed the first phase construction to the airport. The first phase involved the widening of the runway to 60 feet and paving of the existing runway length of 3,000 feet. During the design phase, it was determined that a 404 permit would be required to extend it to 3,400 feet in length. A concern of scheduling for specific improvements was raised by ADOT due to the minimal length and existing obstructions. The Town of Kearny developed a phasing plan for continued airport development and obstruction removal which satisfied the concerns of ADOT and funding was continued. The phasing of construction was proposed as follows:

Phase II 1992-1993

Preapplication/application 404 permit.
Relocate two hangers and mobile home.
Install and relocate necessary utilities.
Construct paved apron for 10 tie-downs.
Relocate effluent holding pond.
Relocate/pave access road to north boundary.
Minor fencing.

Phase III 1993-1994

Extend, pave and stripe runway to 3,400 feet.

Relocate runup areas beyond primary surface area on north side of the runway.

Install blast fence for west runup area.

Relocate lake access road.

Runway MIRL and security lighting.

Segmented circle, signal beacon and wind cone.

Minor fencing.

Phase IV 1994-1995

Modify hanger for administration office. Install utilities and fire protection. Expand apron with 6 additional tetanies.

In January, 1993 flooding destroyed 1,500-1,800 feet of the newly upgraded runway. Additionally, extensive damage occurred to the shoulders of the remaining runway, and both runup areas were virtually destroyed.

Including the damage to the airport, damage was sustained to the existing flood protection dike, the dikes of the sewage treatment and holding ponds, recreation lake and campground in the floods of 1993. The Federal Emergency Management Agency (FEMA) and the Arizona Department of Emergency Management Services (ADEM) had reviewed the damage sustained by these floods and determined that \$1.02 million dollars would be required to restore all facilities, except the flood dike, to their pre-flood condition. A breakdown of the damage survey reports is shown in Table 1.

Shortly after the flood water had receded, the Town contracted with the Soils Conservation Service to restore the existing flood protection dike which relocated the dike at the east end of the runway. The dike at its current height and location restricts the usable runway length and will require the threshold to be displaced 200 feet to meet FAA safety requirements. Therefore, only 2,800 feet of usable length would be available for landing from either direction on the runway. The takeoff length of 3,000 feet would not change. This encroachment provides a substandard length for a Basic Utility - Stage I Airport.

With the encroachment of the dike into the runway clear zone and proposed extension area, concern was expressed by the Town, ADOT and FEMA as to the process of reconstruction of the Town facilities. FEMA, in conjunction with the Arizona Department of Transportation, agreed to jointly fund a report which would analyze the existing facilities and propose the methods for restoration which would meet pre-flood conditions and current regulation requirements. Additionally, the report was required to provide flood protection alternatives for the site.

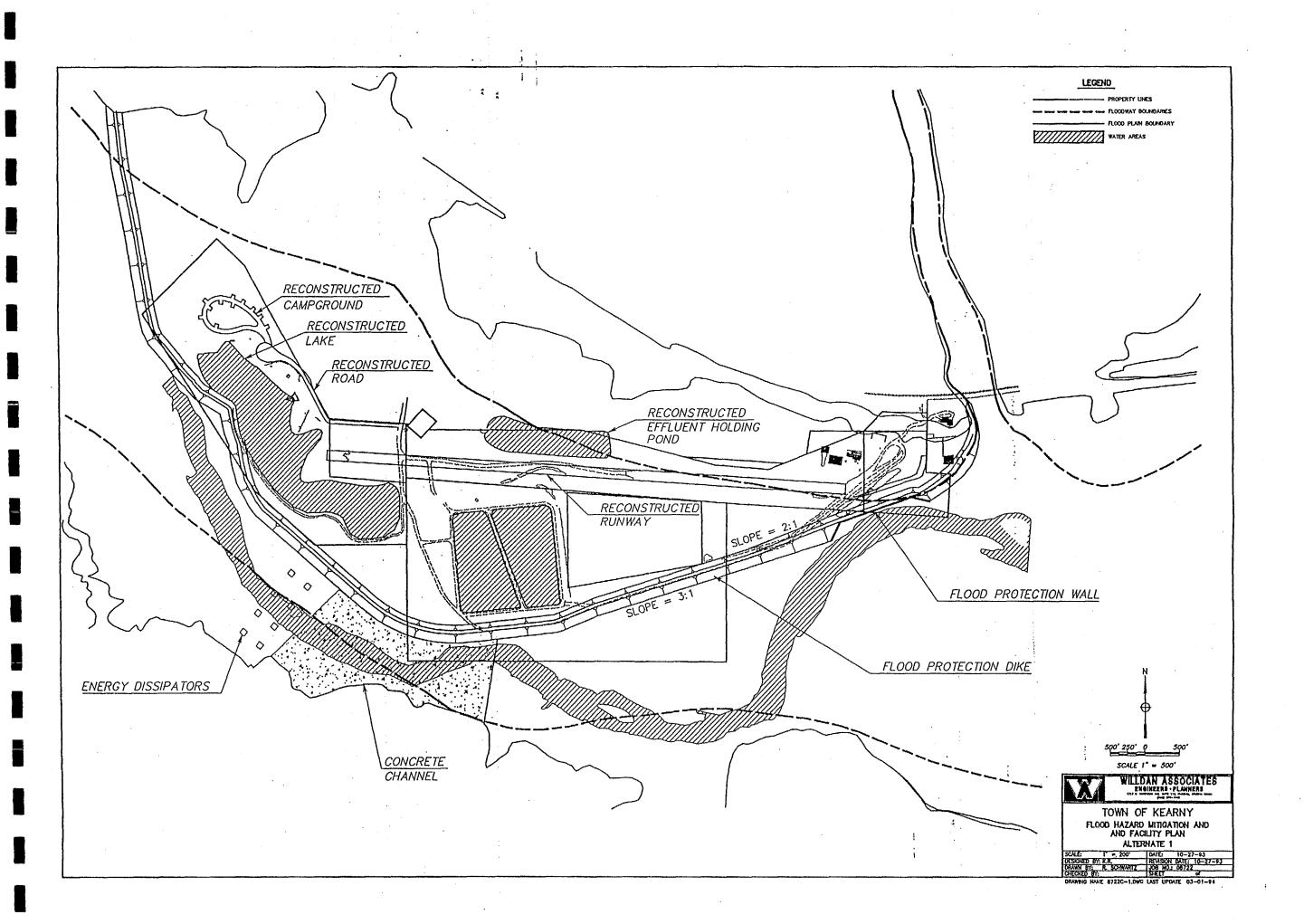
The Flood Hazard Mitigation and Facility Plan was prepared by Willdan Associates in March of 1994 and outlined three alternatives for reconstruction. These alternatives and preliminary cost estimates are attached. Due to the extensive nature of construction within the facility site, it was determined that an environmental assessment was necessary to clear the site of environmental concerns. The Environmental Assessment was prepared by the Federal Emergency Management. Both documents recommended Alternative Three as the preferred alternative. Design has begun on this alternative, and the revision to the Master Plan is considered as a part of the reconstruction.

TABLE 1

KEARNY FEMA FUNDS DAMAGE SURVEY REPORT BREAKDOWN

DEBRIS REMOVAL FROM CAMPGROUND					
ABC DEBRIS	CY CY	311 36111	\$14.40 \$2.65 TOTAL	\$4,478.40 \$95,694.15 \$100,172.55	
REPAIR WATER TREATMENT PO	ND #1 AND 2				
PUMP HOUSE ELECTRICAL SPECIAL 6' CHAIN LINK 10' CHAIN LINK GATES PVC WATER LINE SEWER PIPE MATERIALS SUPPLIES DEBRIS	SF LS LF EA LF LF LS CY	140 1 3520 2 650 660 1 1 740	8 450 8 370 3 21 3976 4828 1.75	\$1,120.00 \$450.00 \$28,160.00 \$740.00 \$1,950.00 \$13,860.00 \$3,976.00 \$4,828.00 \$1,295.00 \$56,379.00	
REPAIR WATER TREATMENT POL	ND #3				
DEBRIS FILL	CY CY	33333 893	1.75 15.75 TOTAL	\$58,332.75 <u>\$14.064.75</u> \$72,397.50	
REPAIR ACCESS ROAD					
AC 2" DEPTH ABC DEBRIS	TON CY CY	425 442 6637	44 14.4 1.75 TOTAL	\$18,700.00 \$6,364.80 <u>\$11,614.75</u> \$36,679.55	
REPAIR AND CLEANOUT LAKE					
DEBRIS FILL AERATOR SPECIAL FISH LAKE LINER BRIDGE REPAIR PVC. DRAIN LANDSCAPING REPAIR	CY CY LS LS CY LS LF	232320 4100 1 1 3327 1 200 1 TOTAL	1.75 3.95 3527 1579 20 500 3	\$406,560.00 \$16,195.00 \$3,527.00 \$1,579.00 \$66,540.00 \$500.00 \$600.00 \$0.00 \$495,501.00	
RUNWAY RECONSTRUCTION					
AC 2" PRIME COAT 6" ABC 4 STRAND BARB FENCE 24' DOUBLE CHAIN LINK FENCE HERBICIDE PAINTING DEBRIS ENGINEERING AND INSPECTION	TON TON CY LF EA LS LS CY LS	2512 39 2630 5412 1 1 32410 1 TOTAL	44 228 14.4 3 1100 1000 2500 1.75 19300	\$110,528.00 \$8,892.00 \$37,872.00 \$16,236.00 \$1,100.00 \$1,000.00 \$2,500.00 \$56,717.50 \$19,300.00 \$254,145.50	

DAMAGE SURVEY REPORT TOTAL \$1,015,275.10



		<u>Units</u>	Quantity	Cost/Unit	Total
WA	STEWATER TREATMENT PLANT				
1.	RECONSTRUCTION OF EFFLUENT H	OLDIN(G POND		
	Debris Removal Dike repair Item Total Construction Costs	CY CY	12,000 1,000	\$1.75 \$5.00	\$21,000 \$5,000 \$26,000
2.	ENGINEERING FEES				
	Design Construction Administration Item Total Engineering Fees	i.			\$5,000 <u>\$2,600</u> \$7,600
3.	CONTINGENCY (15%)				<u>\$5,040</u>
	Item Total Cost	s		·	\$38,640

		<u>Units</u>	Quantity	Cost/Unit	Total
LAI	KE, CAMPGROUND, SITE GRADING				
1.a.	DEBRIS REMOVAL FROM CAMPGRO	<u>UND</u>			
	ABC Debris Construction Costs:	CY CY	311 36,111	\$16.00 \$1.75	\$4,976 <u>\$63,194</u> <i>\$68,000</i>
1.b.	REPAIR ACCESS ROAD				
	AC 2" Depth ABC Debris Construction Costs:	TON CY CY	425 442 6,637	\$50.00 \$16.00 \$1.75	\$21,250 \$7,072 <u>\$11,615</u> <i>\$40,000</i>
1.c.	REPAIR AND CLEANOUT LAKE				
	Excavation Debris Fill Aerator Special Fish Lake Liner Bridge Repair PVC Drain Landscaping Repair Abandon Well New Well Construction Costs: Item Total Construction Costs	CY CY CY LS LS CY LS LF LS LF	0 73,000 1,700 1 1 3,327 1 200 1 0	\$1.75 \$1.75 \$3.95 \$3,527.00 \$1,579.00 \$20.00 \$500.00 \$3.00 \$0.00 \$5,000.00 \$200.00	\$0 \$127,750 \$6,715 \$3,527 \$1,579 \$66,540 \$500 \$600 \$0 \$0 \$207,000 \$315,000
2.	ENGINEERING Design Construction Management				\$25,000 \$32,000
3.	Item Total Engineering Fees CONTINGENCY (15%)				\$57,000 \$56,000
	Item Total Costs				\$428,000

		<u>Units</u>	Quantity	Cost/Unit	Total
AIF	PORT				
1.	RUNWAY RECONSTRUCTION				
	Excavation and Embankment AC 2" Prime Coat 6" ABC Chain Link Fence 24' Double Chain Link Fence Herbicide Painting Access Road Item Total Construction Costs	CY TON TON CY LF EA LS CY	41,000 1,670 26 3,000 5,450 1 1 1 800	\$4.00 \$45.00 \$250.00 \$16.00 \$10.50 \$1,250.00 \$1,200.00 \$2,700.00 \$8.00	\$164,000 \$75,150 \$6,500 \$48,000 \$57,225 \$1,250 \$1,200 \$2,700 \$6,400 \$362,000
2.	ENGINEERING FEES				•
	Design Construction Administration Item Total Engineering Fees				\$29,000 \$36,000 \$65,000
3.	CONTINGENCY (15%)	•			<u>\$64,000</u>
	Item Total Cost				\$491,000

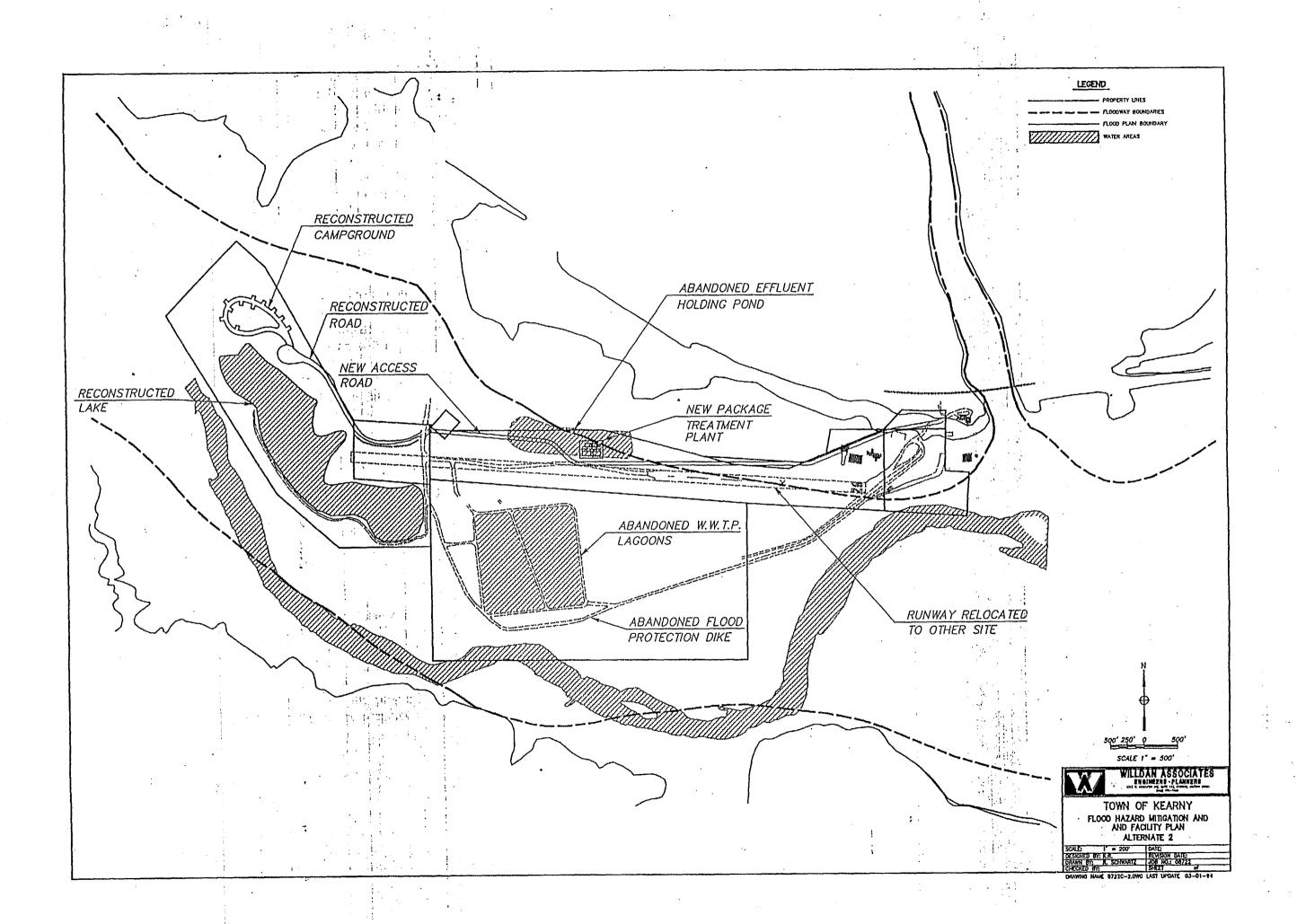
		<u>Units</u>	Quantity	Cost/Unit	<u>Total</u>
FLO	OOD PROTECTION				
1.	REMOVE FLOOD PROTECTION DIKE				
	Construction Flood Protection River Channel Work Concrete River Channel Embankment From Off-site Embankment On-site Remove Existing Dike Rip Rap Dike Undertoe Retaining Wall	LS SY CY CY CY CY CY CY	1 220,000 66,000 190,000 100,000 0 19,500 13,000 1,500	\$50,000.00 \$1.50 \$300.00 \$5.00 \$2.00 \$1.75 \$25.00 \$8.00 \$300.00	\$50,000 \$330,000 \$19,800,000 \$950,000 \$200,000 \$0 \$487,500 \$104,000 \$450,000
	Revegetation (Riparian Mix) Item Total Construction Costs	AC	10	\$2,200.00	\$22,000 \$22,394,000
2.	ENGINEERING FEES				
	Design LOMR Documents 404 Permit Construction Administration Item Total Engineering Fees				\$896,000 \$30,000 \$80,000 \$2,239,000 \$3,245,000
4.c	CONTINGENCY (15%)				\$3,846,000
	Item Total Cost				\$29,485,000

Units Quantity

Cost/Unit

Total

TOTAL PROJECT COSTS	
Construction Costs	
1 Wastewater Treatment Plant	\$26,000
2 Lake, Campground	\$315,000
3 Airport	\$362,000
4 Flood Protection	<u>\$22,394,000</u>
Total Construction Costs	\$23,097,000
Miscellaneous Costs	
Permits	\$0
Total Miscellaneous Costs	. \$0
Engineering Fees	
Permit Fees	\$80,000
LOMR Documents	\$30,000
Design Fees	\$955,000
Construction Administration Fees	<u>\$2,309,600</u>
Total Engineering Fees	\$3,374,600
Contingency (15%)	\$3,971,040
Project Total Costs:	\$30,442,640



		<u>Units</u>	Quantity	Cost/Unit	<u>Total</u>
WAS	STEWATER TREATMENT PLANT				
1.a	AeroMod Extended Aeration Wastewater Tre	atment I	<u>Plant</u>		
	Primary Treatment				
	Fine Screens (1)	EA	3	\$14,000	\$42,000
•	Concrete	CY	4	\$350	\$1,400
	Secondary Treatment				
	Pkg. Equipment Lump Sum (2)	LS	1	\$450,000	\$450,000
	Concrete Basin Complex	CY	420	\$400	\$168,040
	Tertiary Treatment				
	Alum Feed System (1)	LS	1	\$13,000	\$13,000
	Concrete - Pads	CY	. 2	\$350	\$648
	Disinfection				
	Ultraviolet Light (1)	LS	1	\$17,000	\$17,000
	Solids Handling				
	Draimad Sludge System (1)	LS	1	\$40,000	\$40,000
	Power, Controls, Instrumentation (10%)	LS	1	\$74,000	\$74,000
	200 KW Emergency Generator Set (1)	LS	1	\$41,000	\$41,000
	Office/Lab Structure	SF	600	\$35	\$21,000
	Odor Control System(s)	LS	1	\$40,000	\$40,000
	Interconnecting Piping (1)	LS	1	\$20,000	\$20,000
	Earthwork/Site Work	CY	2,300	\$3.50	<u>\$8,050</u>
	Plant Construction Costs	<i>:</i>			\$936,000

		<u>Units</u>	Quantity	Cost/Unit	Total
1.b.	CLOSURE OF WASTEWATER PONDS 1,	2 & 3			
	Sludge drying and removal Dike removal Closure Costs.	CY CY	4,000 39,000	\$3.00 \$1.75	\$12,000 \$68,250 \$80,000
2.	Item Total Construction Costs PERMITS	3		*.	\$1,016,000
	NPDES Permit APP Permit Construction Permit Item Total Permit Fees	ł			\$4,000 \$7,500 <u>\$1,000</u> \$12,500
3.	ENGINEERING FEES				
	Permit Acquisition NPDES Aquifer Protection Permit Item Total Permit Engineering Fees				\$4,500 <u>\$10,300</u> <i>\$14,800</i>
	Design Construction Administration Item Total Engineering Fees				\$125,000 \$95,000 \$234,800
1.e	CONTINGENCY (15%)				<u>\$189,000</u>
	Item Total Cost	S			\$1,452,300

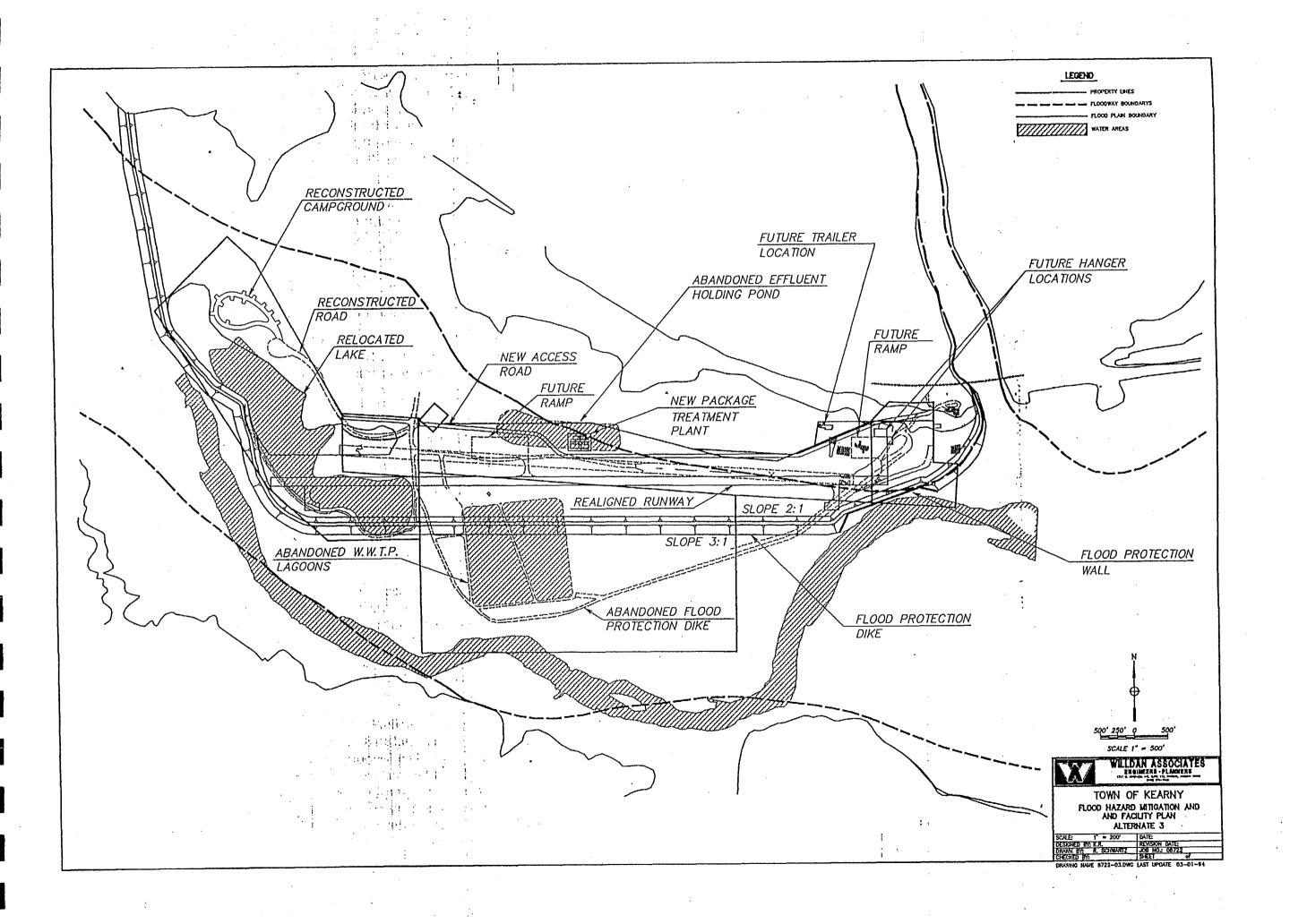
		<u>Units</u>	Quantity	Cost/Unit	Total			
LA]	LAKE, CAMPGROUND, SITE GRADING							
1.a.	DEBRIS REMOVAL FROM CAMPGROUN	<u>D</u>						
	ABC Debris Construction Costs:	CY CY	311 36,111	\$16.00 \$1.75	\$4,976 <u>\$63,194</u> \$68,000			
1.b.	REPAIR ACCESS ROAD							
	AC 2" Depth ABC Debris Construction Costs:	TON CY CY	425 442 6,637	\$50.00 \$16.00 \$1.75	\$21,250 \$7,072 <u>\$11,615</u> <i>\$40,000</i>			
1.c.	REPAIR AND CLEANOUT LAKE							
	Excavation Debris Fill Aerator Special Fish Lake Liner Bridge Repair PVC Drain Landscaping Repair Abandon Well New Well Construction Costs: Item Total Construction Costs	CY CY CY LS LS CY LS LF LS LF	0 73,000 1,700 1 1 3,327 1 200 1 0 0	\$1.75 \$1.75 \$3.95 \$3,527.00 \$1,579.00 \$20.00 \$500.00 \$3.00 \$0.00 \$5,000.00 \$200.00	\$0 \$127,750 \$6,715 \$3,527 \$1,579 \$66,540 \$500 \$600 \$0 \$0 \$0 \$0 \$315,000			
2.	ENGINEERING FEES Design				\$25,000			
	Construction Management Item Total Engineering Fees				\$31,500 \$56,500			
3.	CONTINGENCY (15%)				<u>\$56,000</u>			
	Item Total Cost				\$428,000			

Cost Estimate

		<u>Units</u>	Quantity	Cost/Unit	Total
AIR	PORT				
1.	RUNWAY RECONSTRUCTION				
	Excavation and Embankment	CY	1,500,000	\$3,00	\$4,500,000
	Culverts	LS	1	\$650,000.00	\$650,000
	AC 2"	TON	2,512	\$45.00	\$113,040
	Prime Coat	TON	39	\$250.00	\$9,750
	6" ABC	CY	3,968	\$16.00	\$63,488
	Chain Link Fence	LF	5,412	\$10.50	\$56,826
	24' Double Chain Link Fence	EA	1	\$1,250.00	\$1,250
	Herbicide	LS	1	\$1,200.00	\$1,200
,	Painting	LS	1	\$2,700.00	\$2,700
	Access Road	CY	1,200	\$8.00	<u>\$9,600</u>
•	Item Total Construction Costs:				\$5,408,000
2.	PROPERTY ACQUISITION	AC	40	\$10,000.00	\$400,000
3.	ENGINEERING FEES				
	Environmental Clearance				\$20,000
	Revise Airport Master Plan				\$10,000
	Design				\$433,000
	Construction Administration				\$541,000
	Item Total Engineering Fees				\$1,004,000
4.	CONTINGENCY (15%)				\$1,022,000
	Item Total Cost:				\$7,834,000

		<u>Units</u>	Quantity	Cost/Unit	<u>Total</u>
FLO	OOD PROTECTION				
1.	REMOVE FLOOD PROTECTION DIKE				
	Embankment From Off-site	CY	0	\$5.00	\$0
	Embankment On-site	CY	2,000	\$2.00	\$4,000
	Remove Existing Dike	CY	40,000	\$1.75	\$70,000
	Revegetation (Riparian Mix)	AC	10	\$2,200.00	<u>\$22,000</u>
	Item Total Construction Costs				\$96,000
4.b	ENGINEERING FEES		·		
	Design				\$8,000
	Construction Administration				\$10,000
	Item Total Engineering Fees				\$18,000
	Hem Total Engineering rees				\$10,000
4.c	CONTINGENCY (15%)				\$17,000
	Item Total Cost				\$131,000

	<u>Units</u>	Quantity	Cost/Unit	Total
TOTAL PROJECT COSTS				
Construction Costs				
Wastewater Treatment Plant				\$1,016,000
Lake, Campground				\$315,000
Airport				\$5,408,000
Flood Protection		•		\$96,000
Total Construction Costs				\$6,835,000
Miscellaneous Costs				
Permits				\$12,500
Property Acquisition				\$400,000
Total Miscellaneous Costs				\$412,500
Engineering Fees				
Permit Fees				\$14,800
Environmental Clearance				\$20,000
Master Plan Fees				\$10,000
Design Fees				\$591,000
Construction Administration Fees				<u>\$677,500</u>
Total Engineering Fees				\$1,313,300
Contingency (15%)				<u>\$1,284,000</u>
Project Total Costs	:			\$9,844,800



		<u>Units</u>	Quantity	Cost/Unit	Total		
WAS	WASTEWATER TREATMENT PLANT						
1.a	AeroMod Extended Aeration Wastewater Tre	eatment]	Plant				
	Primary Treatment						
	Fine Screens (1)	EA	3	\$14,000	\$42,000		
	Concrete	CY	4	\$350	\$1,400		
	Secondary Treatment						
	Pkg. Equipment Lump Sum (2)	LS	1	\$450,000	\$450,000		
	Concrete Basin Complex	CY	420	\$400	\$168,040		
	Tertiary Treatment	•					
	Alum Feed System (1)	LS	1	\$13,000	\$13,000		
	Concrete - Pads	CY	2	\$350	\$648		
	Disinfection						
	Ultraviolet Light (1)	LS	1	\$17,000	\$17,000		
	Solids Handling						
	Draimad Sludge System (1)	LS	1	\$40,000	\$40,000		
	Power, Controls, Instrumentation (10%)	LS	1	\$74,000	\$74,000		
	200 KW Emergency Generator Set (1)	LS	1	\$41,000	\$41,000		
	Office/Lab Structure	SF	600	\$35	\$21,000		
	Odor Control System(s)	LS	1	\$40,000	\$40,000		
	Interconnecting Piping (1)	LS	1	\$20,000	\$20,000		
	Earthwork/Site Work	CY	2,300	\$3.50	<u>\$8,050</u>		
	Plant Construction Costs.	•			\$936,000		

	•	<u>Units</u>	Quantity	Cost/Unit	<u>Total</u>
1.b.	CLOSURE OF WASTEWATER PONDS 1,	2 & 3			
		O. I.	4.000	#2 00	#10 000
	Sludge drying and removal Dike removal	CY CY	4,000	\$3.00 \$1.75	\$12,000
	Closure Costs:		39,000	Φ1./3	\$68,250 \$80,000
	Ciosure Cosis.				\$80,000
	Item Total Construction Costs:				\$1,016,000
2.	<u>PERMITS</u>				
	ampra p				# 4.000
	NPDES Permit				\$4,000
	APP Permit Reuse Permit				\$7,500 \$2,000
	Construction Permit				\$2,000 \$1,000
	Item Total Permit Costs				\$14,500
	TOOM YOUR YOURSE				42.,200
3.	ENGINEERING FEES				
	Permit Acquisition				
	NPDES				\$4,500
	Aquifer Protection Permit				\$10,300
	Reuse Permit				<u>\$8,000</u>
	Item Total Permit Engineering Fees				\$22,800
	Design				\$165,000
	Construction Administration				<u>\$95,000</u>
	. Item Total Engineering Fees				\$282,800
4.	CONTINGENCY (15%)				<u>\$197,000</u>
	Item Total Costs	:			\$1,510,300

		<u>Units</u>	Quantity	Cost/Unit	<u>Total</u>
LAF	KE, CAMPGROUND, SITE GRADING				
1.a.	DEBRIS REMOVAL FROM CAMPGROUN	<u>ID</u>			
	ABC Debris Construction Costs:	CY CY	311 36,111	\$16.00 \$1.75	\$4,976 <u>\$63,194</u> <i>\$68,000</i>
1.b.	REPAIR ACCESS ROAD				
	AC 2" Depth ABC Debris Construction Costs:	TON CY CY	425 442 6,637	\$50.00 \$16.00 \$1.75	\$21,250 \$7,072 \$11,615 \$40,000
1.c.	REPAIR AND CLEANOUT LAKE			·	
	Excavation Debris Fill Aerator Special Fish Lake Liner Bridge Repair PVC Drain Landscaping Repair Abandon Well New Well Construction Costs:	CY CY CY LS CY LS LF LS LF	48,000 19,200 4,100 1 3,327 1 200 1 1 90	\$1.75 \$1.75 \$4.00 \$3,550.00 \$1,600.00 \$20.00 \$500.00 \$3.00 \$0.00 \$5,000.00 \$200.00	\$84,000 \$33,600 \$16,400 \$3,550 \$1,600 \$66,540 \$500 \$600 \$0 \$5,000 \$18,000 \$230,000 \$338,000
2.	ENGINEERING FEES				
	Design Construction Management Item Total Engineering Fees				\$25,000 \$34,000 \$59,000
3.	CONTINGENCY (15%)				\$60,000
	Item Total Cost				\$457,000

		<u>Units</u>	Quantity	Cost/Unit	Total
AIR	PORT				
1.	RUNWAY RECONSTRUCTION				·
	Excavation and Embankment AC 2" Prime Coat 6" ABC Chain Link Fence 24' Double Chain Link Fence Herbicide Painting Access Road Item Total Construction Costs	CY TON TON CY LF EA LS CY	41,000 2,550 39 4,000 5,400 1 1 1 3,225	\$4.00 \$45.00 \$250.00 \$16.00 \$10.50 \$1,250.00 \$1,200.00 \$2,700.00 \$8.00	\$164,000 \$114,750 \$9,750 \$64,000 \$56,700 \$1,250 \$1,200 \$2,700 \$25,800 \$440,000
2.	ENGINEERING FEES				
	Environmental Clearance Revise Airport Master Plan Design Construction Administration Item Total Engineering Fees				\$0 \$5,000 \$35,000 <u>\$44,000</u> \$84,000
3.	CONTINGENCY (15%)				<u>\$79,000</u>
	Item Total Cost				\$603,000

		<u>Units</u>	Quantity	Cost/Unit	<u>Total</u>			
FLC	FLOOD PROTECTION							
1.	REMOVE FLOOD PROTECTION DIKE							
	Embankment From Off-site Embankment On-site Remove Existing Dike Rip Rap Dike Undertoe Retaining Wall Revegetation (Riparian Mix) Item Total Construction Costs	CY CY CY CY CY CY	240,000 100,000 40,000 19,500 13,000 1,400	\$5.00 \$2.00 \$1.75 \$40.00 \$8.00 \$350.00 \$2,200.00	\$1,200,000 \$200,000 \$70,000 \$780,000 \$104,000 \$490,000 \$22,000 \$2,866,000			
2.	ENGINEERING FEES							
	Design LOMR Documents Construction Administration Item Total Engineering Fees				\$60,000 \$30,000 <u>\$287,000</u> \$377,000			
3.	CONTINGENCY (15%)				<u>\$486,000</u>			
	Item Total Cost:				\$3,729,000			

	<u>Units</u>	Quantity	Cost/Unit	<u>Total</u>
TOTAL PROJECT COSTS				
Construction Costs				
Wastewater Treatment Plant Lake, Campground Airport Flood Protection Total Construction Costs				\$1,016,000 \$338,000 \$440,000 <u>\$2,866,000</u> \$4,660,000
Miscellaneous Costs				
Permits Property Acquisition Total Miscellaneous Costs	i.			\$14,500 <u>\$0</u> \$14,500
Engineering Fees				
Permit Fees Environmental Clearance Master Plan Fees LOMR Documents Design Fees Construction Administration Fees Total Engineering Fees				\$22,800 \$0 \$5,000 \$30,000 \$285,000 \$460,000 \$802,800
Contingency (15%)				\$822,000
Project Total Costs	:			\$6,299,300